

MODEL NUMBER

FT 2531

BP ☒BR ☐

CUSTOMER JPL

CUSTOMER P/N

CONTROLLING DOCUMENT

CUST ☐TELEDYNE ☒

CUSTOMER SCD NO

RF SPECIFICATIONS

NUMBER OF STAGES	4		
TUNING RANGE (GHz) START	18.0	TO STOP	26.5
BANDWIDTH-ON-FREQUENCY (MHz MIN)	400 [1]		
INSERTION LOSS (dB MAX)	7.0		
RIPPLE & SPURIOUS (dB MAX)	2.0		
PASSBAND VSWR (MAX)	2.0:1	<input checked="" type="checkbox"/> BEST PT	<input type="text"/> OTHER
HALF IF REJECTION (dB MIN)			
REFERENCE REJECTION (dB MIN)	3.0 [2]		
IMAGE REJECTION (dB MIN)			
HARMONIC REJECTION (dB MIN)	60		
INPUT LIMITING POWER (dBm MIN)	+10		
INPUT PWR, NO DAMAGE (dBm MAX)	+30		

REFERENCE

OFFSET (MHZ)	321.4	POLARITY (+OR-)	-
RF POWER INPUT(dBm) MIN	-15	MAX	-5

ENVIRONMENTAL SPECIFICATIONSSCREENING

TEMP RANGE	0	TO	+60	°C	COMM	<input checked="" type="checkbox"/>	RUGGED	<input type="checkbox"/>	MIL	<input type="checkbox"/>
------------	---	----	-----	----	------	-------------------------------------	--------	--------------------------	-----	--------------------------

DRIVERANALOG ☐DIGITAL ☒

TUNING VOLTAGE(V)		TO		NO OF BITS	12
CIRCUIT POWER	+15	VDC @	400	mA MAX	START WORD
	-15	VDC @	1400	mA MAX	STOP WORD
	+5	VDC @	100	mA MAX	LATCHING (Y OR N)
					Y

HEATER POWER	28	VDC @	125	mA MAX STEADY STATE @ 25°C
	1200			mA MAX SURGE AT TURN-ON

POWER INPUT TERMINALS	SOLDER PINS	<input type="checkbox"/>	CONNECTOR	<input checked="" type="checkbox"/>
-----------------------	-------------	--------------------------	-----------	-------------------------------------

OUTLINE	1303111 [4]	QUALITY LEVEL	Commercial
---------	-------------	---------------	------------

OTHER SPECS

[1] 400MHz minimum; with a design goal of 500MHz minimum.

[2] Filter closed-loop center freq. may be mistuned (high) at high end of band to achieve this rejection at the reference frequency.

[3] Level Triggered Latch

[4] Pin 4 will be used for D/A latch.